

Firmware 7.1 Release Notes

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1. Devices Supported

This firmware release supports the following devices:

Peplink Balance:	20 / 30 / 30 LTE / 50 / One / 210 / 310 / 305 HW2 / 380 HW6 / 580 HW2-3 / 710 HW3 / 1350 HW2 / 2500
Pepwave MAX:	On-The-Go HW2 / BR1 HW2 / BR1 Slim / BR1 Mini / BR1 ENT / BR2 / 700 / HD2 / HD2 IP67 / HD2 Mini / HD4 / Transit / Hotspot
Pepwave Surf:	SOHO HW2 / SOHO MK3
MediaFast:	200 / 500 / 750 / HD2^ / HD4^

^ Full names = HD2 with MediaFast, HD4 with MediaFast.

2. Firmware 7 Compatibility - Unsupported Models

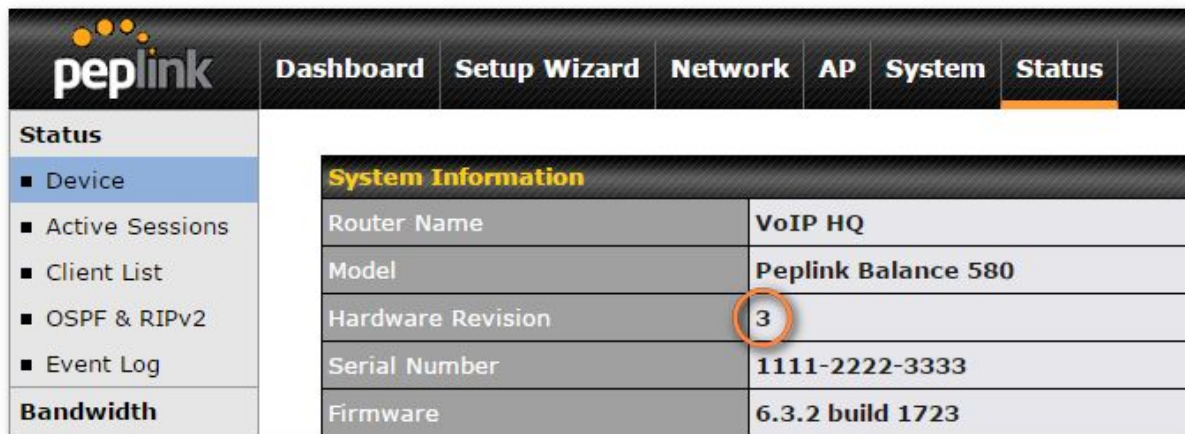
Please note that the following models will **NOT** be supported by Firmware 7 onwards. Rather, they will receive Firmware 6.x maintenance releases as needed:

- MAX BR1 HW1
- MAX BR1 Pro HW1
- MAX On-The-Go HW 1
- Surf SOHO HW1
- BR1 and BR2 IP55 HW 1
- Balance 305 HW1
- Balance 380 HW3-5
- Balance 580 HW1
- Balance 710 HW 1-2
- Balance 1350 HW1

Please note that the following models are not compatible with Firmware 6.3.0 onwards:

- Balance 380 HW1-2

To find the hardware revision of your Device, please navigate to **Status > Device** of your Web UI.



The screenshot shows the Peplink Web UI interface. The top navigation bar includes 'peplink' logo and menu items: Dashboard, Setup Wizard, Network, AP, System, and Status. The 'Status' menu is selected, and the 'Device' sub-menu is active. The main content area displays 'System Information' with the following data:

System Information	
Router Name	VoIP HQ
Model	Peplink Balance 580
Hardware Revision	3
Serial Number	1111-2222-3333
Firmware	6.3.2 build 1723

3. Important Notices

For Firmware 7.0.1 Onwards

PepVPN Route Isolation is Not Backwards Compatible: If users are using PepVPN Route Isolation, they should upgrade all the devices in the network to 7.0.1 or 6.3.4.

For Firmware 7

PepVPN Firmware Compatibility Change: Devices running Firmware 7 will only form PepVPN connections with devices running Firmware 6.1 or later. Firmware 6.0 or earlier is deprecated.

Firmware Downgrade is Unavailable for the BR1, BR1 ENT, BR1 Slim, and Transit: Please note that once Firmware 7 is installed on those, it will not be possible to downgrade to Firmware 6 or below. Dual-boot with older Firmware is still supported, but each Firmware slot will not accept earlier Firmware once it contains Firmware 7.

After Partitioning a MediaFast Router, Running Previous Firmware will Completely Clear the Cache: Please note that once you create partitions on any MFA router, running 6.3.3 or below will cause the router to clear the entire cache.

4. Obtaining the Firmware

Firmware 7.1 can be obtained here: <https://www.peplink.com/open-beta-program/>

5. New Features

Reference	Feature	Devices Supported
13586	[IPsec] Site-to-site IPsec VPN now supports IKEv2.	All Balance / MediaFast / MAX models Surf: SOHO
16991	[NAT Mapping] Implemented Virtual Network Address support for One-to-One or Many-to-One NAT Mapping to resolve local network conflicts with remote peers connected via PepVPN / IPsec / IP Forwarding WAN.	
17191	[Outbound Policy] New Outbound Policy Algorithm: Fastest Response Time.	
14507	[PepVPN] The PepVPN Receive Buffer now enables users to configure a buffering time for received packets, which helps to reduce jitter and out of order packets.	
15796	[Port Status] The Web UI now shows the port status of connected devices.	Balance: One, 210/2310 HW4 MAX: HD4 MediaFast: HD2, HD4

6. Feature Improvements

Reference	Feature	Devices Supported
11611	[PepVPN] The PepVPN Status page now provides more information when link failure happens; helping to identify whether it failed to send, or failed to receive.	All Balance / MediaFast / MAX models Surf: SOHO
8436	[PepVPN] PepVPN / SpeedFusion Connection Mapping to Remote WANs now supports multiple WANs selection for more flexibility. Navigation: Enable this option in the help text of WAN Connection Priority panel on SpeedFusion settings page.	
17397	[PepVPN] Modifying LAN or VLAN settings no longer disconnects all of the NAT Mode and Layer 2 PepVPN connections, only those attached to the affected LAN or VLAN will be disconnected.	
17085	[PepVPN Test] The test has been enhanced to provide granular WAN-to-WAN control and statistics.	

15595	[InControl] InControl and the Web UI event log can detect LAN cable disconnects. InControl can also send alerts in the event of a LAN cable disconnect.	
17223	[Security] The Web Admin can now be completely disabled via CLI command.	
16402	[IPsec] IPsec supports stronger DH group (Group: 2, 5, 14, 19, 20, 21, 24).	All Balance / MediaFast / MAX models Surf: SOHO
17220	[WAN Quality] When the "Lowest Latency" algorithm is in use, latency information and signal strength history (if applicable) will be displayed on the "status" page.	
18124	[Trunk Untagged Network] Added support for trunk untagged networks on the Balance 20 and 30 LTE.	Balance: 20,30 LTE
17083	[AP Controller Lite] The AP Controller Lite can now support 2 AP profiles on each managed AP.	Balance: One, 20, 210, 310 MAX: 700, HD2, HD2 Mini, HD2 IP67, Transit, HD4 MediaFast: 200, HD2, HD4
17311	[AP Controller] Use the AP Controller to access the Web Admin of external AP.	Balance: ALL MAX: 700, HD2, HD2 Mini, HD2 IP67, Transit, HD4 MediaFast: All
17365	[AP Controller] The number of supported AP has been increased to 30	Balance: 30 LTE, 210 HW4, 310 HW4 MAX: 700 HW 3-4, HD2 HW5, HD2 IP67 HW 2-3, HD2 Mini, BR1 ENT, HD4, HD4 IP67, Transit MediaFast: 200, HD2, HD4
17004	[Captive Portal] Added support for a backup RADIUS server.	All Balance / MediaFast models MAX: BR1, BR1 Slim, BR1 Mini, BR1 Ent, BR2, 700, HD2, HD2 Mini, HD4, Hotspot, Transit
17258	[Cellular] The SMS Toolkit now supports more SMS coding schemes.	Balance: 30 LTE MAX: All models except the 700 and OTG MediaFast: HD2, HD4
17230	[Cellular] Secondary band now displays signal information.	
15577	[Cellular] Users can now determine the signal strength threshold needed for the router to consider a connection online.	

18236	[Per-Port VLAN] The MAX Transit and the BR1 MK2 now support per port VLAN	MAX: BR1 MK2, Transit
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7. Resolved Issues

Reference	Feature	Devices Supported
9661	[AP Controller] Devices supporting AP Controller lite can configure up to 16 SSIDs but only 3 of them is activated.	Balance: One, 20, 210, 310 MAX: 700, HD2, HD2 Mini, HD2 IP67, Transit, HD4 MediaFast: 200, HD2, HD4
18116	[Vulnerability] Security fix for CVE-2017-5754 (Meltdown)	MediaFast: 200, 500, 750
13036	[PepVPN] DHCP Relay doesn't work if server located in PepVPN peer's network.	All Balance / MediaFast / MAX models Surf: SOHO
13056	[Outbound Policy] Making Outbound Policy changes may result in incorrect interruption of traffic irrelevant to the policy.	
17072	[Trunk / Access Ports] A Trunk/access tagged port can ping trunk untagged port but not vice versa.	
16170	[InControl] When a WAN connection goes up or down, InControl 2 traffic will leak out from unexpected WAN connections, not following outbound policy.	
17668	[Web UI] CPU Load information on Dashboard does not reflect the real network traffic load.	
17478	[SIM PIN] When the SIM PIN is in error state, altering it will not result in an immediate change.	Balance: 30 LTE MAX: All models except the 700 and OTG MediaFast: HD2, HD4
17106	[SIM Card Selection] Even if the preferred SIM is set for the roaming SIM, the router will still always choose the local SIM.	
16584	[PepVPN] PepVPN latency values also count inactive WAN-to-WAN connections.	Balance: One*, 210, 310, 305*, 380, 580, 710, 1350, 2500 MAX: 700, Transit*, HD2, HD2 Mini, HD2 IP67, HD4 MediaFast: HD2*, HD4*, 200*, 500*, 750*
16231	[PepVPN] WAN-to-WAN connection statistics do not appear when using the PepVPN "Weighted Round Robin" mode.	*Software license required to activate

17630	[PepVPN] Unable to establish more than 1024 Layer 2 PepVPN connections on the same LAN or VLAN.	Balance: 2500
16095	[Wi-Fi WAN] The Wi-Fi WAN not disabled in cold standby mode	MAX: 700, OTG, BR1, BR1 Mini, HD2, HD2 IP67, HD4, Hotspot, Transit MediaFast: HD2, HD4 Surf: Soho
16549	[Wi-Fi WAN] The Wi-Fi WAN does not connect to 802.11r enabled SSID.	
15367	[LED] On older hardware revision of the MAX 700, the Wi-Fi WAN LED is always off, regardless of Wi-Fi WAN activity.	MAX: 700
17415	[DPI] Incorrect handling of DPI	All models

8. Report a Bug

To report a bug, please open a support ticket at <https://contact.peplink.com/secure/create-support-ticket.html>.

For the latest development news, and known issues, take a look at our forums: <https://forum.peplink.com/>